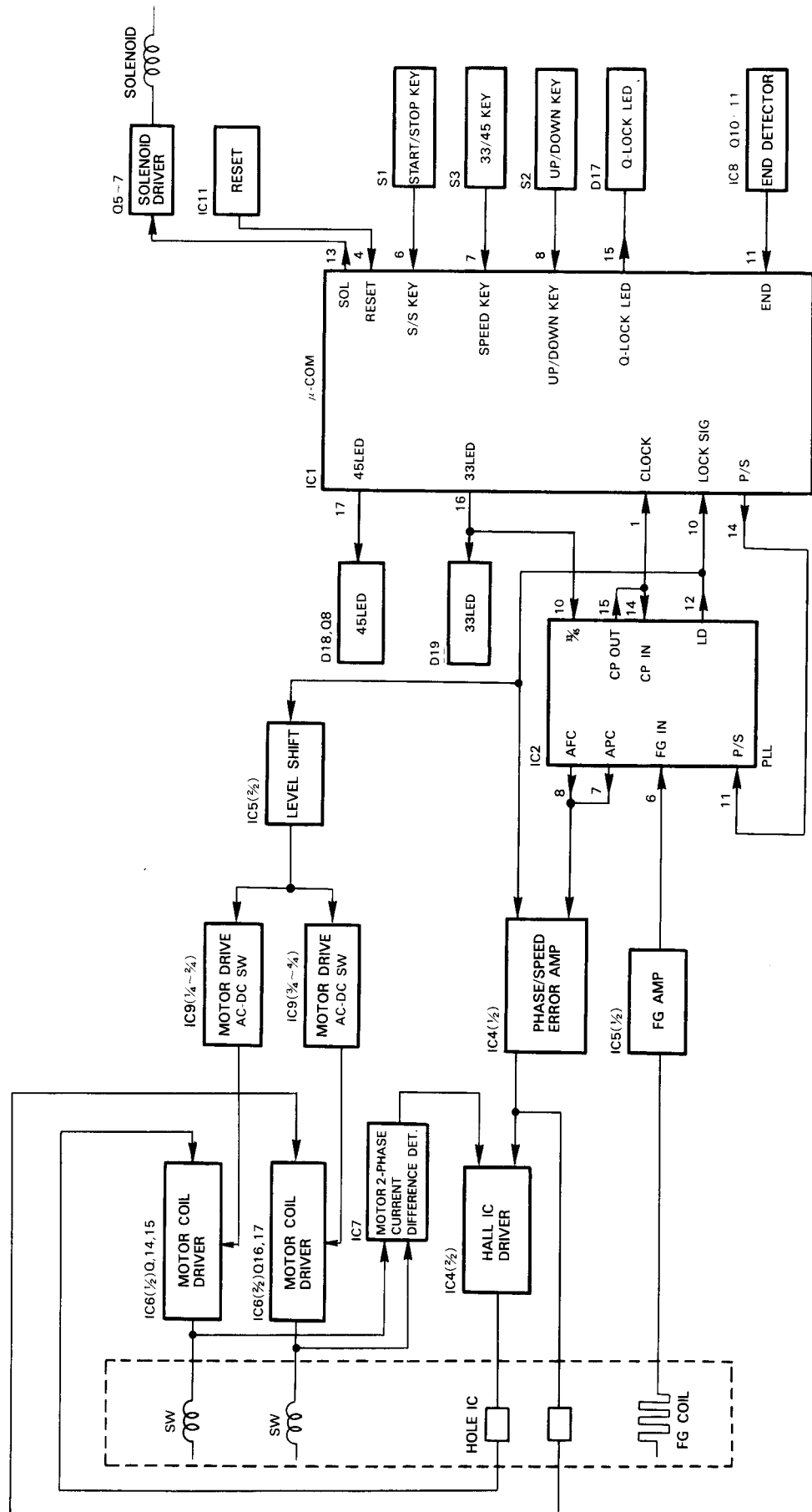


**Use the red special screw only for shield case.**

\*Refer to Parts List on page 12.

## BLOCK DIAGRAM

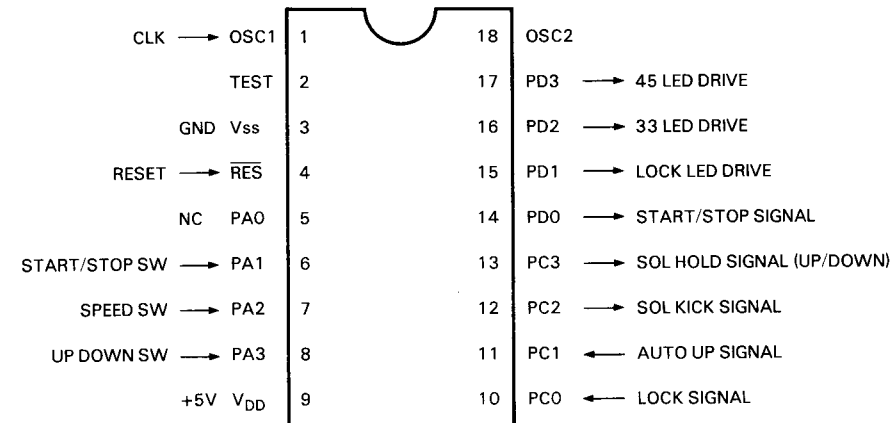


# KD-8030 KD-8030

## CIRCUIT DESCRIPTION

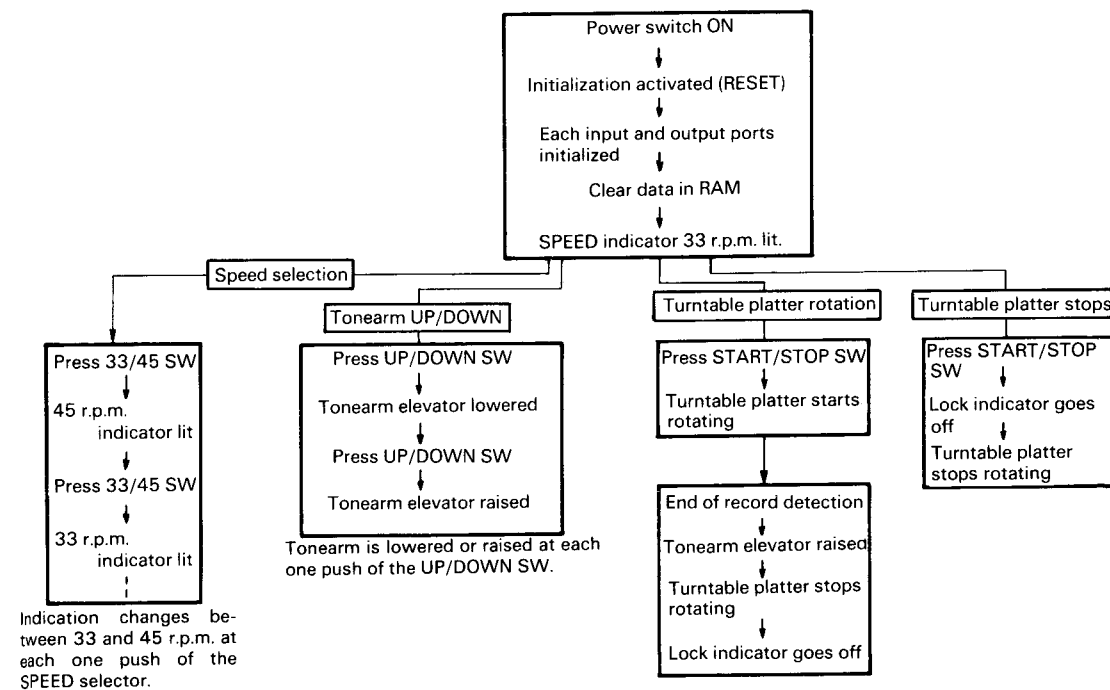
### Microprocessor Operation Description (LC6528C-4053)

#### Port description



#### • Operation specifications

The following diagram shows the operations of each section which occur at each operating point after power has been turned on.



#### Condition of each LC6528C-4053

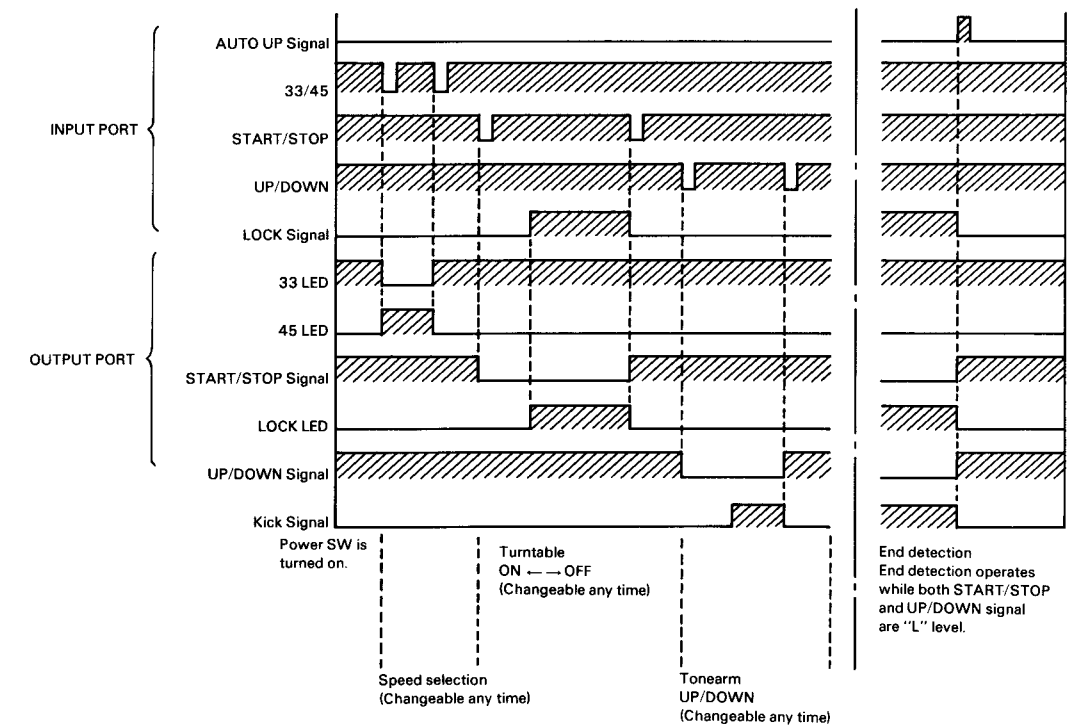
- (1) Initialization (Power ON)
- (2) Speed selection (33/45 rpm)
- (3) Turntable platter starts rotating (START)
- (4) Tonearm auto up
- (5) Turntable platter stops rotating (STOP)

The above mentioned (1) ~ (5) are placed in the order of the functions described in "LC6528C-4053 Function description". The conditions shown in the table below are also in that order so that functions can be confirmed while checking the IC's ports.

PIN NO.	INPUT PORT						OUTPUT PORT					
	7	6	11	5	8	10	16	15	17	14	13	12
PORT NAME	33/45 SW	START STOP SW	AUTO UP Signal	Not used	UP DOWN SW	LOCK Signal	33rpm LED	LOCK LED	45rpm LED	START STOP Signal	UP DOWN Signal	Kick Signal
(1) Power ON RESET												
(2) 33/45 SW ON (45) 33/45 SW ON (33)												
(3) START/STOP SW ON												
(4) Auto up signal IN START/STOP SW ON												
(5) START/STOP SW ON												

#### I/O port timing diagram

(Note) This diagram shows the timing for operation (1) to (5)



# KD-8030 KD-8030

## ADJUSTMENT/REGLAGES/ABGLEICH

### ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TURNTABLE SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	END DETECT STARTING POSITION	—	Connect a DC voltmeter to TP1 (Pin 7 of IC8)	Set the stylus tip so that 57.5mm is obtained from the center of the turntable spindle.	VR1	0.9V	(a)
2	THRESHOLD VOLTAGE	—	Connect a DC voltmeter to TP2 (Pin 2 of IC8)	—	VR2	220mV	(b)

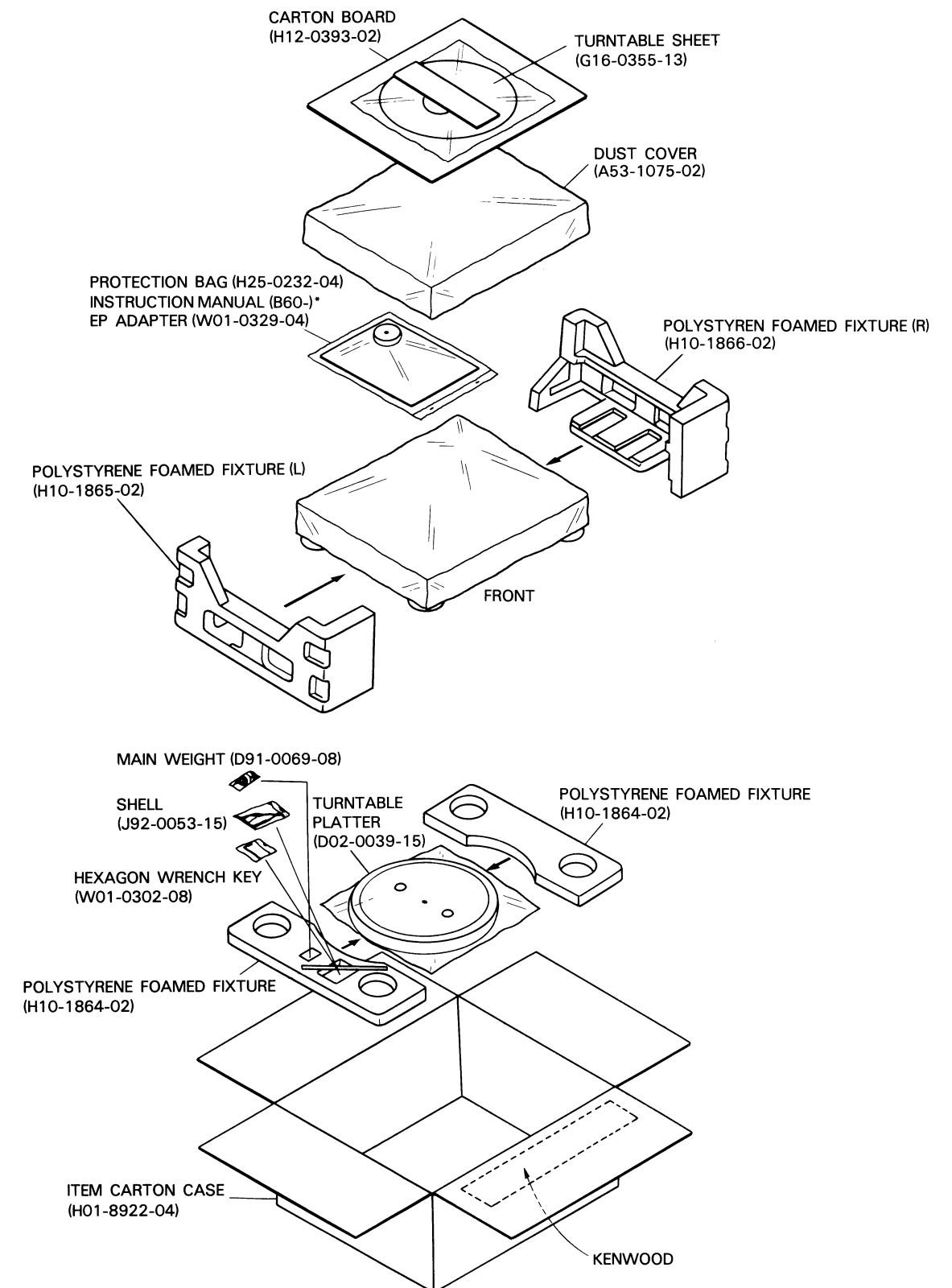
### REGLAGES

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE TOURNE-DISQUE	POINTS L'ALIGNMENT	ALIGNER POUR	FIG.
1	POSITION DE DEPART LA TERMINASION DE DETECTEUR	—	Connecteur un voltmètre CC à TP1 (Fiche 7 de IC8)	Régler la crête de aiguille de façon de 57,5mm soit obtenir de centre de plateau à disques.	VR1	0,9V	(a)
2	TENTION DE SEUIL	—	Connecteur un voltmètre CC à TP2 (Fiche 2 de IC8)	—	VR2	220mV	(b)

### ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	PLATTEN SPIELER-EINSTELLUNG	ABGLEICH PUNKTE	ABGLEICHEN Für	ABB.
1	ENDE DETEKTS ANFANGS-STELLUNG	—	Einen Gleichspannungs messer zum TP1 (Stift 7 von IC8) anschließen.	Der spitze von Tonabnehmer so einstellen, daß ein 57,5mm aus der mitte des Plattentellers erhalt wird.	VR1	0.9V	(a)
2	SCHWELLEN-SPANNUNG	—	Einen Gleichspannungs messer zum TP2 (Stift 2 von IC8) anschließen.	—	VR2	220mV	(b)

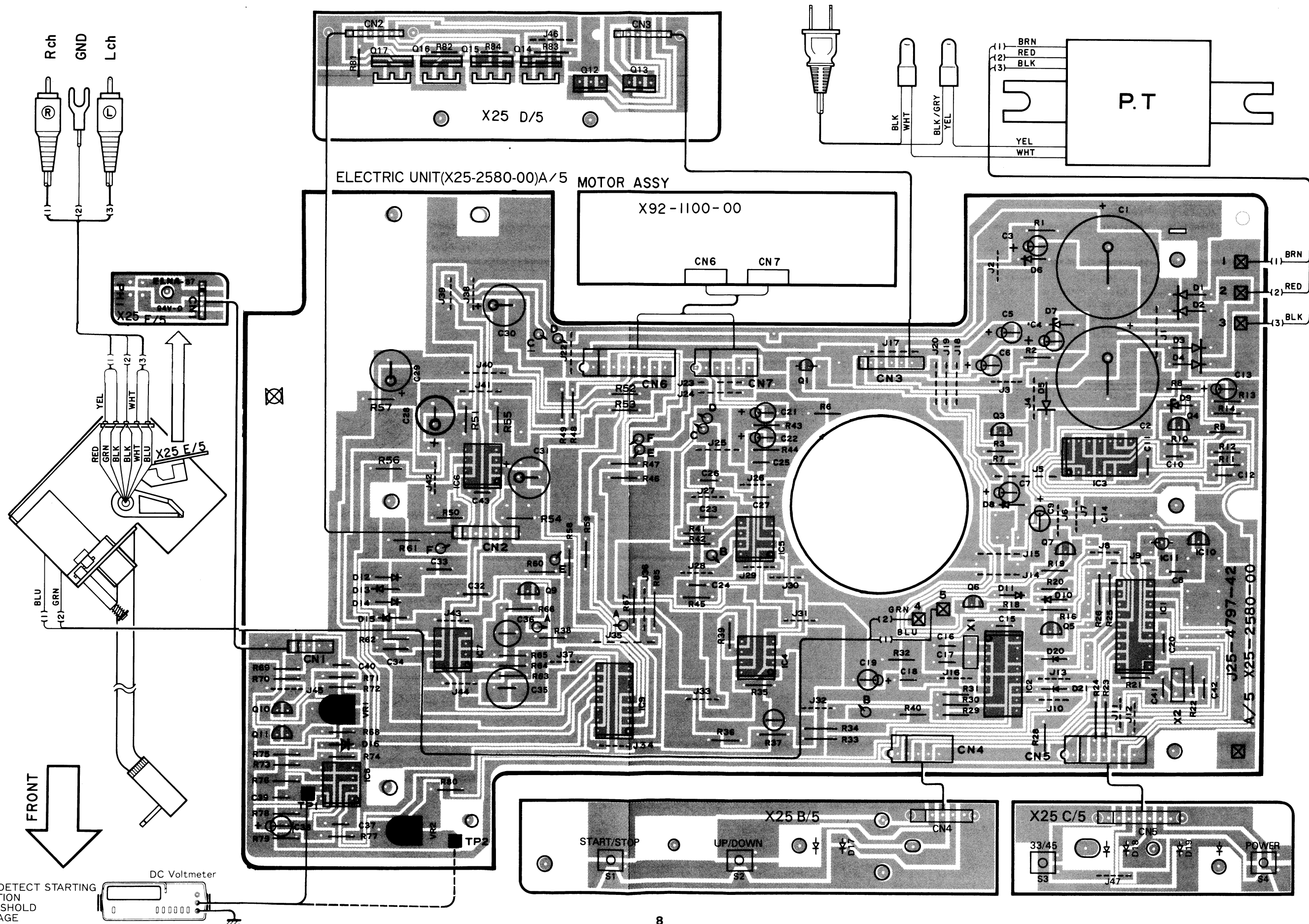
## PACKING



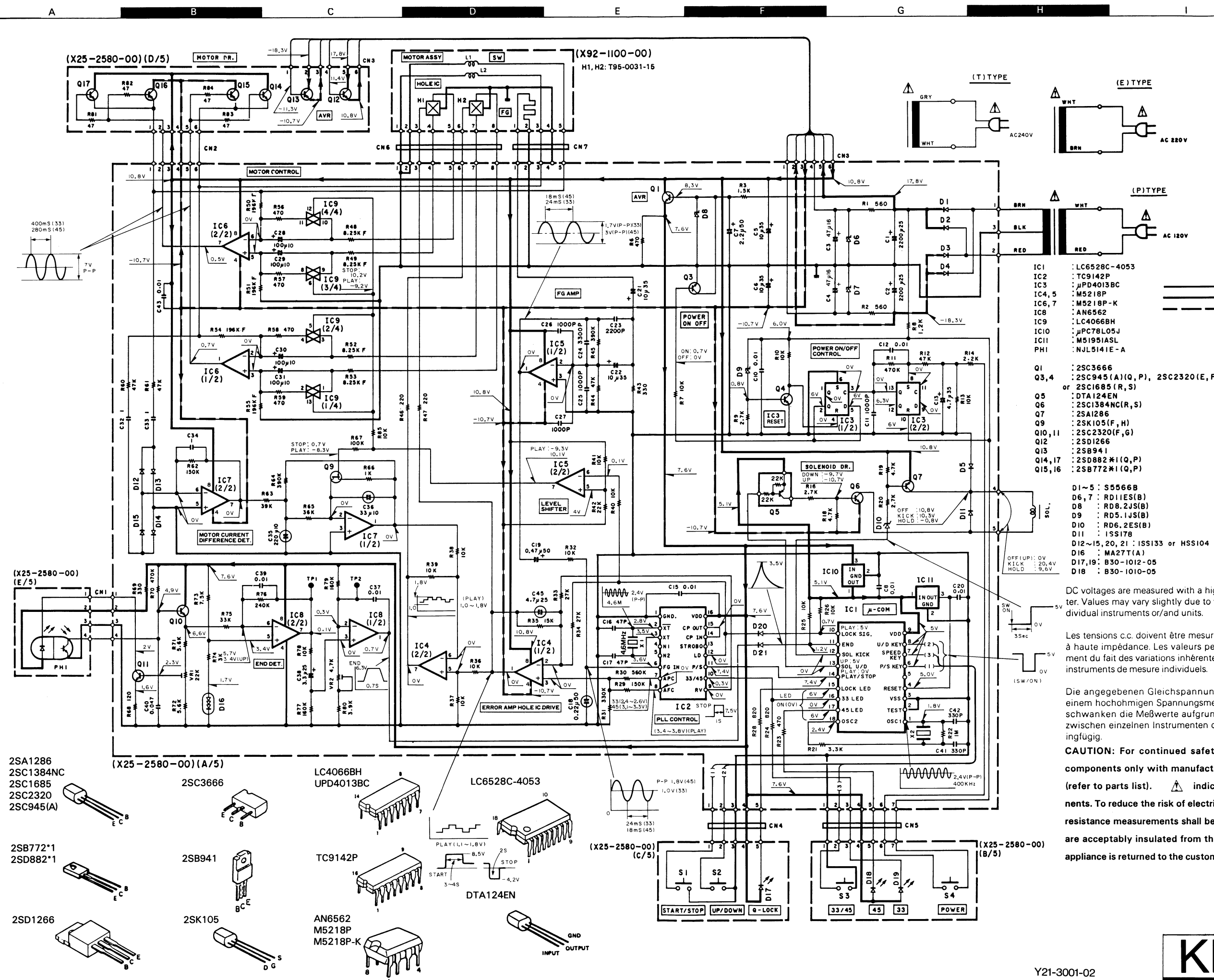
\*Refer to Parts List on page 12.

PC BOARD (COMPONENT SIDE VIEW)

Refer to the schematic diagram for the values of resistor and capacitors.







- IC1 : LC6528C-4053  
IC2 : TC9142P  
IC3 :  $\mu$ PD4013BC  
IC4,5 : M5218P  
IC6,7 : M5218P-K  
IC8 : AN6562  
IC9 : LC4066BH  
IC10 :  $\mu$ PC78L05J  
IC11 : M5195IASL  
PHI : NJL5141E-A
- Q1 : 2SC3666  
Q3,4 : 2SC945(A)(Q,P), 2SC2320(E,F)  
or 2SC1685(R,S)  
Q5 : DTA124EN  
Q6 : 2SC1384NC(R,S)  
Q7 : 2SA1286  
Q9 : 2SK105(F,H)  
Q10,11 : 2SC2320(F,G)  
Q12 : 2SD1266  
Q13 : 2SB941  
Q14,17 : 2SD882\*(I,Q,P)  
Q15,16 : 2SB772\*(I,Q,P)
- D1~5 : S5566B  
D6,7 : RD11ES(B)  
D8 : RD8.2JS(B)  
D9 : RD5.1JS(B)  
D10 : RD6.2ES(B)  
D11 : 1SS178  
D12~15,20,21 : 1SS133 or HSS104  
D16 : MA27T(A)  
D17,19 : B30-1012-05  
D18 : B30-1010-05

DC voltages are measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

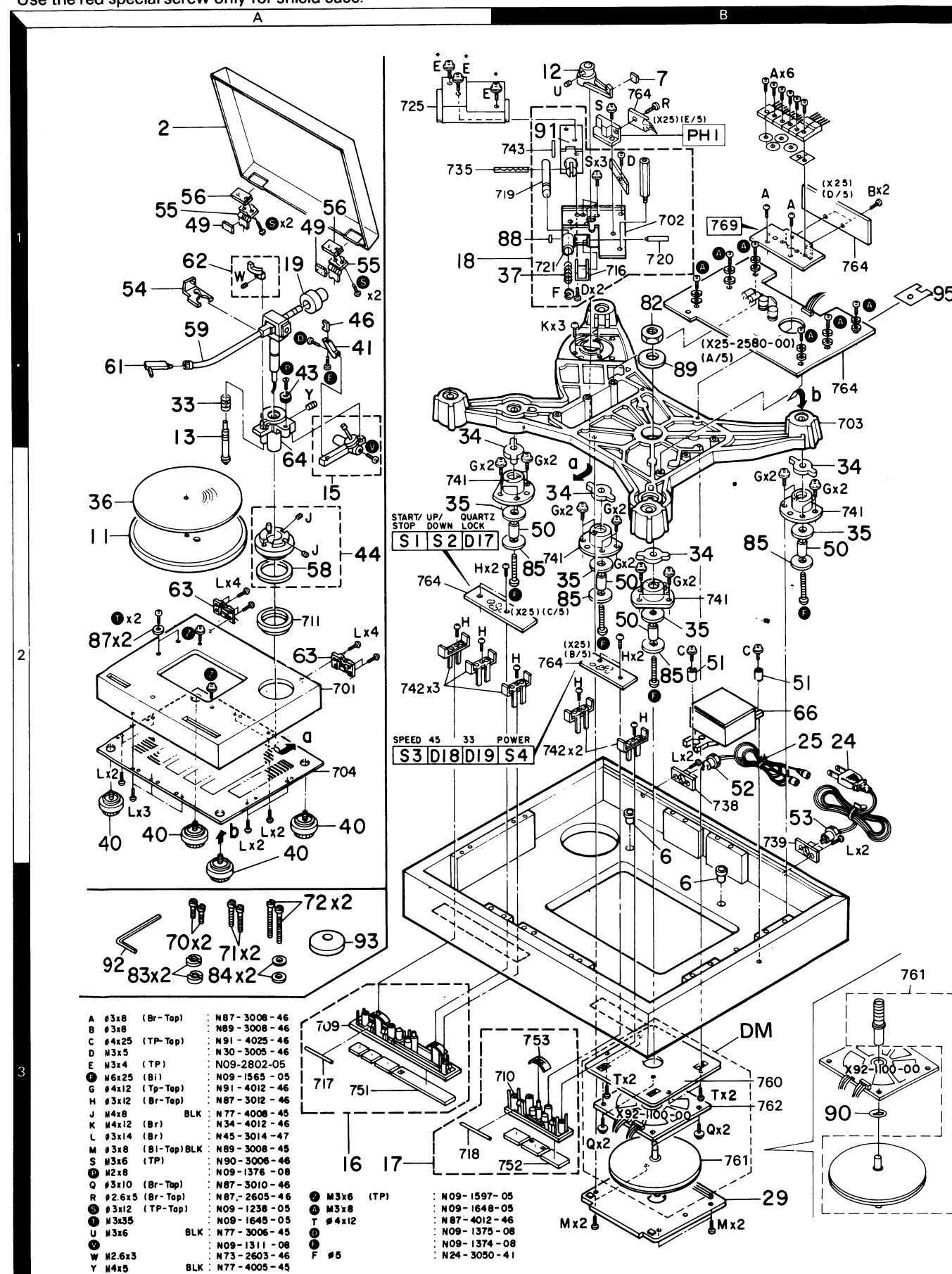
- 2SA1286  
2SC1384NC  
2SC1685  
2SC2320  
2SC945(A)
- 2SC3666
- LC4066BH  
UPD4013BC
- LC6528C-4053
- 2SB772\*1  
2SD882\*1
- 2SB941
- TC9142P
- DTA124EN
- AN6562  
M5218P  
M5218P-K
- 2SD1266
- 2SK105

# KD-8030

## EXPLODED VIEW (MAIN UNIT)

## PARTS LIST

**\*Use the red special screw only for shield case.**



# No.1

✕ New Parts  
Parts without **Parts No.** are not supplied.  
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.  
Teile ohne **Parts No.** werden nicht geliefert.

No 2

\* New Parts  
 Parts without Parts No. are not supplied.  
 Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.  
 Teile ohne **Parts No.** werden nicht geliefert

Ref. No. 参照番号	Address 位置	New Parts 新部品	Parts No. 部品番号	Description 部品名 / 規格	Destination 仕向備考
<b>KD-8030</b>					
2	1A		A53-1075-02	DUST COVER	
6	2B, 3B		B09-0051-04	CAP	
7	1B		B19-0510-14	MIRROR	
-			B46-0121-03	WARRANTY CARD	P
-			B46-0122-13	WARRANTY CARD	E
-			B46-0143-03	WARRANTY CARD	T
-			B58-0290-04	CAUTION CARD	
-			B58-0386-04	CAUTION CARD	
-			B58-0518-04	CAUTION CARD	ET
-			B58-0519-04	CAUTION CARD	P
-		*	B60-0307-00	INSTRUCTION MANUAL(ENGLISH)	
-		*	B60-0308-00	INSTRUCTION MANUAL(FRENCH)	PE
-		*	B60-0309-00	INSTRUCTION MANUAL(G/D/I)	E
11			D02-0039-15	TURNABLE PLATTER	
12	2A		D10-0944-24	ARM	
13	1B		D21-1007-08	SHAFT ASSY	
15	1A		D39-0169-08	ANTI-SKATING DEVICE ASSY	
16	2A		D39-0169-08	OPERATIONAL PART ASSY(OPERATE)	
17	3A	*	D40-0957-03	OPERATIONAL PART ASSY(OPERATE)	
18	3A		D40-0844-03	OPERATIONAL PART ASSY(POWER)	
19	1A		D40-0511-23	AUTO-UP MECHANISM ASSY	
24	1A		D91-0069-08	MAIN WEIGHT	
24	2B		E30-0459-05	AC POWER CORD	E
24	2B		E30-0780-05	AC POWER CORD	P
24	2B		E30-1416-05	AC POWER CORD	T
25	2B		E30-0800-05	AUDIO CORD	
29	3B		F07-0483-03	COVER	
-			F07-0574-08	COVER	
33	1A		C01-1057-08	TONER COIL SPRING	
34	2A, 2B		C11-1127-04	CUSHION	
35	2A, 2B		C11-1127-04	CUSHION	
36	2A, 2B		C11-0358-13	TURNABLE SHEET	
37	1B		C01-1078-04	COMPRESSION SPRING	
-		*	H01-8922-04	ITEM CARTON CASE	
-			H10-1844-02	POLYSTYRENE FOAMED FIXTURE(T.T)	
-			H10-1845-02	POLYSTYRENE FOAMED FIXTURE(L)	
-			H10-1866-02	POLYSTYRENE FOAMED FIXTURE(R)	
-			H12-0393-02	CARTON BOARD	
-			H20-0469-14	PROTECTION COVER	
-			H25-0029-04	PROTECTION BAG (40X110)	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	
40	2A		J21-2302-05	HOLDER	
41	1A		J02-0346-13	INSULATOR ASSY	
43	1A		J19-0812-08	HOLDER(REST)	
44	2A		J19-0814-08	HOLDER(WIRE GUIDE)	
-			J19-2580-08	TONEARM BASE ASSY	
46	1A		J19-2614-08	TONEARM REST	
49	1A		J30-0183-05	SPACER	
50	2B		J31-0263-05	COLLAR	(36X15X1.6)
51	2B		J31-0273-05	COLLAR	
52	2B		J41-0033-05	POWER CORD BUSHING(AUDIO CORD)	

**E:** Scandinavia & Europe    **K:** USA  
**Y:** PX (Far East Hawaii)    **T:** England  
**Y:** AAFES (Europe)    **X:** Australia

**A** indicates safety critical components.

Ref. No.	Ref. No.	Address	New Parts No.	Parts No.	Description	Destination
参照番号	参照番号	位置	新部 品 番 号	部 品 番 号	部 品 名 / 規 格	仕 向
53	53	2B		J42-0078-05	POWER CORD BUSHING(POWER CORD)	
54	54	1A		J42-0317-08	BUSHING	
55	55	1A		J50-0314-25	HINGE	
56	56	1A		J50-0322-04	HINGE PLATE	
58	58	2A		J69-0035-05	RING	
59	59	1A		J91-0294-08	TONEARM	
61	61	1A		J92-0053-13	SHELL	
62	62	2A		J99-0020-06	TONEARM LIFTER	
63	63	2A		J21-2302-03	HOLDER	
64	64	2A		J19-2656-08	LIFTER BASE	
-	-			J61-0054-05	WIDE BAND	
-	-			J61-0307-05	WIRE BAND	
66	66	2B		L01-7121-05	POWER TRANSFORMER	P
67	67	2B		L01-7122-05	POWER TRANSFORMER	E
68	68	2B		L01-7127-05	POWER TRANSFORMER	T
70	70	3A		N09-0850-04	CARTRIDGE MOUNTING SCREW(M2.6X	
71	71	3A		N09-0851-04	CARTRIDGE MOUNTING SCREW(M2.6X	
72	72	3A		N09-0852-04	CARTRIDGE MOUNTING SCREW(M2.6X	
82	82	1B		N14-0164-05	HEXAGON NUT	
83	83	3A		N14-0412-04	CIRCULAR NUT	
84	84	3A		N19-0175-09	FLAT WASHER	
85	85	2B		N19-0965-05	FLAT WASHER	
87	87	2A		N19-0985-05	FLAT WASHER	
88	88	1B		N29-0219-05	RETAINING RING	
89	89	1B		N19-0966-05	M TYPE WASHER	
90	90	3B		N29-0085-05	RETAINING RING	
-	-			N89-3010-46	BINDING HEAD TAPITE SCREW	
A	A	1B		N09-1648-05	MACHINE SCREW (M3X8)	
A	A	1B		N87-3008-46	BRAZIER HEAD TAPITE SCREW	
B	B	1B		N89-3008-46	BINDING HEAD TAPITE SCREW	
C	C	2B		N91-4025-46	TP HEAD TAPPING SCREW	
D	D	1B		N09-1375-08	PAN HEAD MACHINE SCREW	
E	E	1B		N30-3005-46	PAN HEAD MACHINE SCREW	
D	D	1A		N09-1374-08	SET SCREW	
E	E	1A		N09-2602-05	TP HEAD MACHINE SCREW	
F	F	2B		N09-1565-05	MACHINE SCREW (M6X25)	
F	F	2B		N28-3050-41	E TYPE RETAINING RING	
G	G	2A, 2B		N91-4012-46	TP HEAD TAPPING SCREW	
H	H	2A, 2B		N87-3012-46	BRAZIER HEAD TAPITE SCREW	
J	J	2A		N87-4008-45	HEXAGON SOCKET HEAD SET SCREW	
K	K	1B		N34-4012-46	TRUSS HEAD MACHINE SCREW	
L	L	2A, 2B		N85-3008-47	BRAZIER HEAD TAPPING SCREW	
M	M	2B		N89-3008-45	BINDING HEAD TAPITE SCREW	
P	P	1A		N09-1376-08	SET SCREW	
Q	Q	3B		N87-3010-46	BRAZIER HEAD TAPITE SCREW	
R	R	1B		N87-2605-46	BRAZIER HEAD TAPITE SCREW	
R	R	1A		N09-1238-05	TAPITE SCREW (3X12)	
S	S	1B		N90-3006-46	TP HEAD MACHINE SCREW	
T	T	2A		N09-1645-05	MACHINE SCREW (M3X35)	
T	T	3B		N87-4012-46	BRAZIER HEAD TAPITE SCREW	
U	U	1B		N77-3006-45	HEXAGON SOCKET HEAD SET SCREW	
V	V	1A, 1B		N09-1311-08	STEPPED SCREW	
W	W	1A		N73-2603-46	SET SCREW (-, CUP POINT)	
Y	Y	1A		N77-4005-45	HEXAGON SOCKET HEAD SET SCREW	

**E:** Scandinavia & Europe    **K:** USA    **P:** Canada  
**Y:** PX(Far East Hawaii)    **T:** England    **M:** Other Areas  
**Y:** AAFES (Europe)    **X:** Australia

^ indicates safety critical components.

**Parts with the exploded numbers larger than 700 are not supplied.**

PARTS LIST

No.4

★ New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向備考
D6 , 7		RD11ES(B) RD8.2JS(B) RD5.1JS(B) RD6.2ES(B) 1SS178	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE	
D12 -15		HSS104 1SS133	DIODE DIODE	
D16		MA2T(A)	VARISTOR	
D20 , 21		HSS104 1SS133	DIODE DIODE	
D20 , 21		LC6528C-4053 TC9142P UD4013BC MS218P MS218P-K AN6562	IC(MICROPROCESSOR) IC(QUARTZ PLL MOTOR CONTROL) IC(D FLIP FLOP X2) IC(OP AMP X2) IC(OP AMP X2) IC(OP AMP X2)	
IC8		AN6562	IC(OP AMP X2)	
IC9		LC4066BH	IC(BILATERAL SWITCH X4)	
IC10		UPC78L05J	IC(VOLTAGE REGULATOR +5V)	
IC11		MS1951ASL	IC(SYSTEM RESET)	
PH1	1B	NJL5141E-A	PHOTO TRANSISTOR	
Q1		2SC3666	TRANSISTOR	
Q3 , 4		2SC1685(R,S)	TRANSISTOR	
Q3 , 4		2SC2320(E,F)	TRANSISTOR	
Q3 , 4		2SC945(A)(Q,P)	TRANSISTOR	
Q5		DTA124EN	DIGITAL TRANSISTOR	
Q6		2SC1384NC(R,S)	TRANSISTOR	
Q7		2SA1286	TRANSISTOR	
Q9		2SK105(F,H)	FET	
Q10 , 11		2SC2320(F,G)	TRANSISTOR	
Q12		2SD1266	TRANSISTOR	
Q13		2SB941	TRANSISTOR	
Q14		2SD882*1(Q,P)	TRANSISTOR	
Q15 , 16		2SB772*1(Q,P)	TRANSISTOR	
Q17		2SD882*1(Q,P)	TRANSISTOR	
MOTOR ASSY (X92-1100-00)				
L1 , 2		L39-0127-05	DRIVE COIL	
H1 , 2		T95-0031-15	HALL ELEMENT	

E: Scandinavia & Europe K: USA P: Canada  
Y: PX(Far East Hawaii) T: England M: Other Areas  
Y: AAFES (Europe) X: Australia  
△ indicates safety critical components.

No.3

★ New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向備考
Z	2A	N09-1597-05	MACHINE SCREW (M6X22.2)	
91	1B	T94-0067-05	SOLENOID	
92	3A	W01-0302-08	HEXAGON WRENCH KEY	
93	3A	W01-0329-04	EP ADAPTER	
DM	3B	X92-1100-00	DIRECT DRIVE MOTOR(T43-0043-13)	
CONTROL UNIT (X25-2580-00)				
D17	2A	B30-1012-05	LED (QUARTZ LOCK)	
D18	2A	B30-1010-05	LED (45)	
D19	2A	B30-1012-05	LED (33)	
C1 , 2		C90-1358-05	ELECTRØ 2200UF	
C3 , 4		CE04KW1C470M	ELECTRØ 47UF 16WV	
C5 , 6		CE04KW1V100M	ELECTRØ 10UF 35WV	
C7		CE04KW1H2R2M	ELECTRØ 2.2UF 50WV	
C8		CK45FF1H103Z	CERAMIC 0.010UF Z	
C10		CK45FF1H103Z	CERAMIC 0.010UF Z	
C11		CK45PB1H102K	CERAMIC 1000PF K	
C12		CK45FF1H103Z	CERAMIC 0.010UF Z	
C13		CE04KW1VAR7M	ELECTRØ 4.7UF 35WV	
C15		CK45FF1H103Z	CERAMIC 0.010UF Z	
C16 , 17		CC45FSL1H470J	CERAMIC 47PF J	
C18		C90-1354-05	NP-ELEC 0.22UF	
C19		CE04KW1HR47H	ELECTRØ 0.47UF 50WV	
C20		CK45FF1H103Z	CERAMIC 0.010UF Z	
C21 , 22		CE04KW1V100H	ELECTRØ 10UF 35WV	
C23		CF92FV1H222J	MF 2200PF J	
C24 -27		CF92FV1H332J	MF 3300PF J	
C28 -31		CK45PB1H102K	CERAMIC 1000PF K	
C32 -34		CE04GW1C101M	LL-ELEC 100UF 16WV	
C35		CF92V1H105J	MF 1.0UF J	
C36		C90-1395-05	NP-ELEC 220UF	
C37		C90-1396-05	NP-ELEC 33UF	
C38		CK45FF1H103Z	CERAMIC 0.010UF Z	
C39		C90-1285-05	ELECTRØ 3.3UF 25WV	
C40		CK45FF1H103Z	CERAMIC 0.010UF Z	
C41 , 42		CK45FSL1H473Z	CERAMIC 0.047UF Z	
C43		CC45FSL1H331J	CERAMIC 330PF J	
C45		CK45FF1H103Z	CERAMIC 0.010UF Z	
95	1B	C90-1352-05	NP-ELEC 4.7UF 25WV	
X1		E23-0125-05	TERMINAL (GND)	
X2		L77-0580-05	CRYSTAL RESONATOR(4.6MHZ)	
R48 , 49		L78-0202-05	CRYSTAL RESONATOR	
R50 , 51		RN14BK2C8251F	RN 8.25K F 1/6W	
R52 , 53		RN14BK2C1963F	RN 196K F 1/6W	
R54 , 55		RN14BK2C8251F	RN 8.25K F 1/6W	
VR1		RN14BK2C1963F	RN 196K F 1/6W	
VR2		R12-3097-05	TRIMMING PØT.(22K) END DETECT	
S1 -4		R12-1069-05	TRIMMING PØT.(4.7K) THRESHOLD	
D1 -5	2A, 2B	S40-1064-05	PUSH SWITCH	
		S5566B	DIODE	

E: Scandinavia & Europe K: USA P: Canada  
Y: PX(Far East Hawaii) T: England M: Other Areas  
Y: AAFES (Europe) X: Australia  
△ indicates safety critical components.



# KD-8030

## SPECIFICATIONS

### Motor and turntable

<b>Drive System</b> .....	Direct-drive system
<b>Motor</b> .....	Quartz PLL coreless & slotless DC servo motor
<b>Turntable Platter</b> .....	33 cm (13") diameter Aluminum alloy, Die-cast
<b>Speeds</b> .....	2 speeds, 33-1/3 and 45 rpm
<b>Wow &amp; Flutter</b> .....	Less than 0.02% (WRMS) Less than 0.03% (DIN)
<b>Rumble</b> .....	DIN weighted better than -80 dB DIN unweighted better than -55 dB

### Tonearm

<b>Type</b> .....	Static-balance type, J-shape tonearm
<b>Effective Tonearm Length</b> .....	245 mm (9-5/8")
<b>Overhang</b> .....	15 mm (9/16")
<b>Tracking Error</b> .....	+1.8° to -1.0°
<b>Tracking Force Range</b> .....	0 to 3 grams (0.1 g Step)
<b>Usable Cartridge Weight</b> .....	2.0 to 12 grams (with supplied head-shell)

### Miscellaneous

<b>Power Consumption</b> .....	25 watts
<b>Dimensions</b> .....	W: 490 mm (19-5/16") H: 182 mm (7-3/16") D: 410 mm (16-5/32")
<b>Weight (Net)</b> .....	13.7 kg (30.14 lb)

### Note:

We follow a policy of continuous advancements in development. For this reason specifications may be changed without notice.

### Note

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the CANADA (P) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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